

COPPER ALLOY FOR PRESS FIT PIN

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Abstract

PURPOSE: To improve strength, spring characteristic, and workability by incorporating specific amounts of Ni and Si to a copper alloy.
CONSTITUTION: An alloy has a composition containing, by weight, 0.4-4.0% Ni, 0.1-1.0% Si, and, as auxiliaries, 0.001-2.0%, in total, of one or more kinds among 0.001-1.0% each of P, Sn, As, Cr, Mg, Mn, Sb, Fe, Co, Al, Ti, Zr, Be, Zn, B, and each element of lanthanides and having the balance Cu with inevitable impurities. This alloy is aged so that Hv160-200 hardness is obtained. A copper alloy for press fit pin having the above composition is free from cracking and die wear in press working and simultaneously it has superior strength and spring characteristic.

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